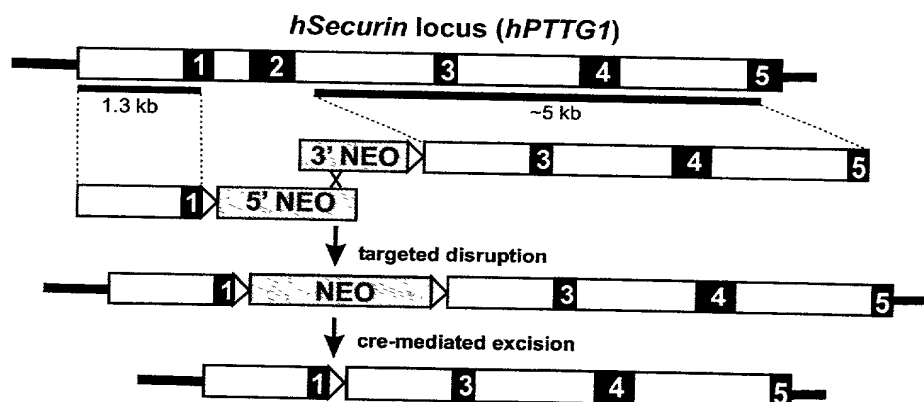
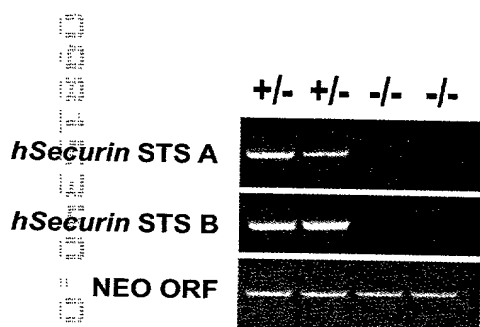


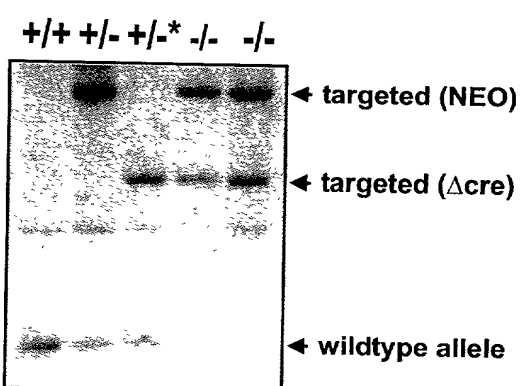
A



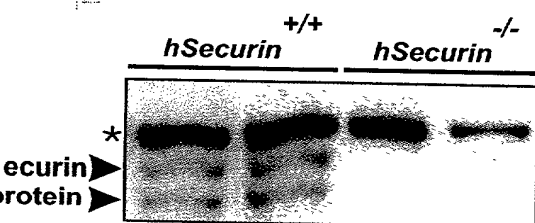
B



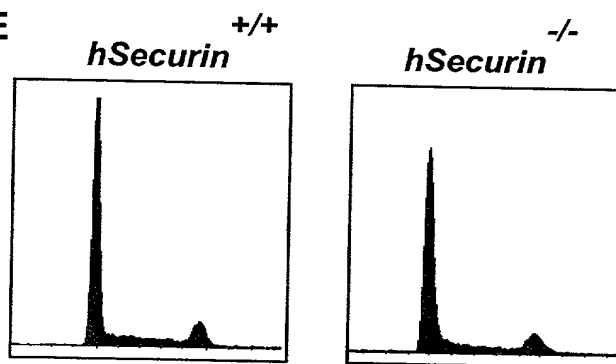
C



D



E



FACS analysis (%)

cytology (%)

| <i>hSecurin</i> | G1 | S | G2/M | apoptosis | mitosis | interphase |
|-----------------|----|----|------|-----------|---------|------------|
| +/+ | 69 | 17 | 14 | 2 | 1 | 97 |
| -/- | 70 | 16 | 14 | 1.8 | 0.7 | 97.5 |

FIG. 1

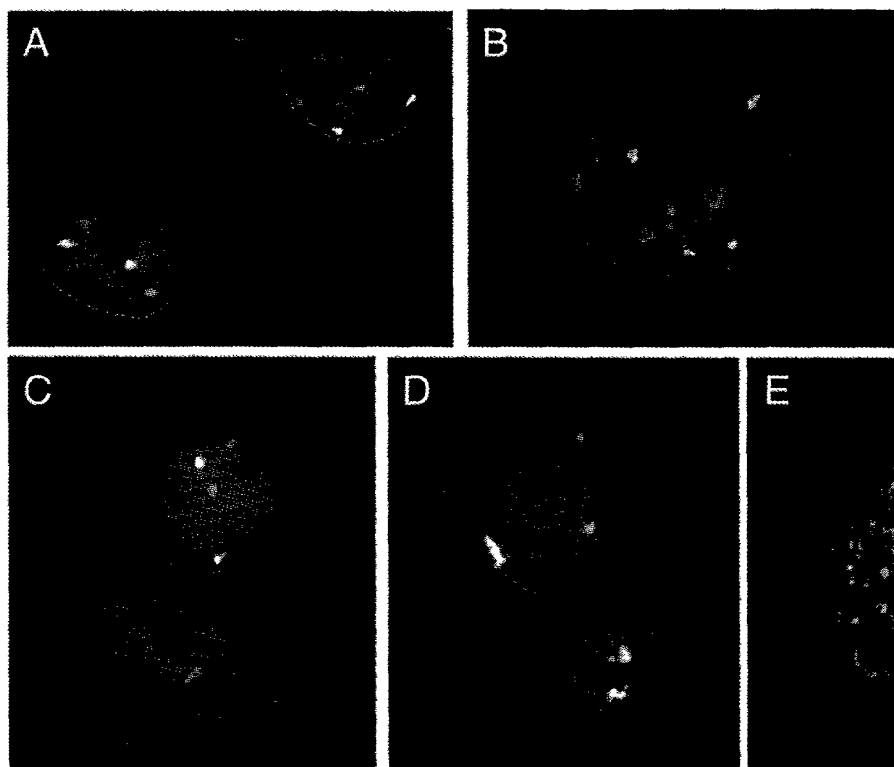
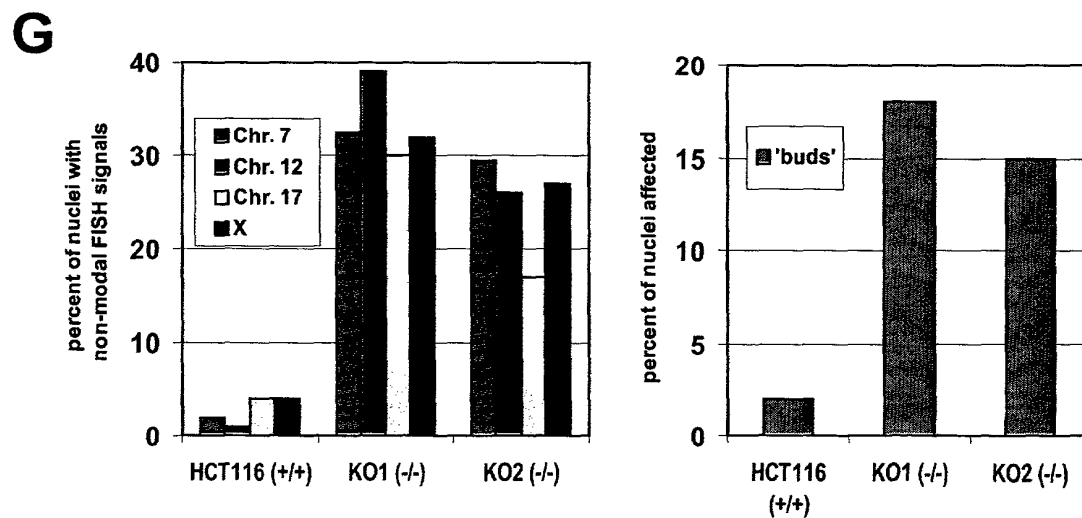


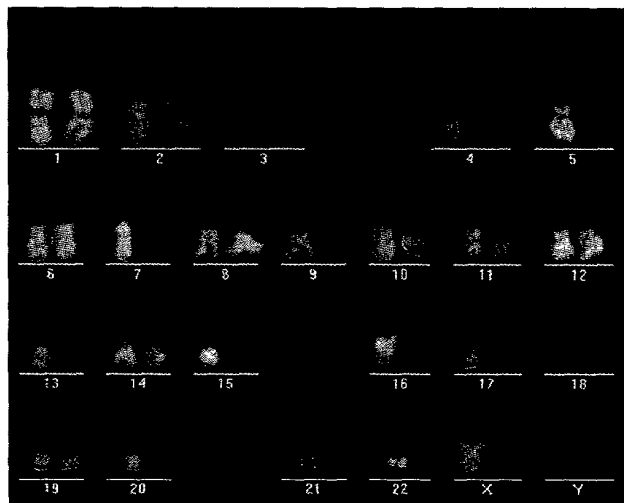
FIG. 2

F

| | chromosome analyzed | number of FISH signals per cell | | | | | | % of cells off the mode |
|---------------------|---------------------|---------------------------------|----|----|---|----|----|-------------------------|
| | | 0 | 1 | 2 | 3 | 4 | ≥5 | |
| HCT116 (+/+) | 7 | 0 | 2 | 98 | 0 | 0 | 0 | 2 |
| | 12 | 0 | 0 | 99 | 1 | 0 | 0 | 1 |
| | 17 | 0 | 2 | 96 | 2 | 0 | 0 | 4 |
| | X | 0 | 96 | 4 | 0 | 0 | 0 | 4 |
| KO1 (-/-) | 7 | 0 | 3 | 76 | 8 | 13 | 0 | 24 |
| | 12 | 0 | — | 70 | — | — | 2 | 30 |
| | 17 | 2 | — | 74 | — | 0 | 0 | 26 |
| | X | — | 68 | — | 2 | 1 | 0 | 32 |
| KO2 (-/-) | 7 | 1 | — | 69 | — | — | 2 | 31 |
| | 12 | 2 | — | 80 | 3 | 3 | 1 | 20 |
| | 17 | 2 | — | 83 | 4 | 3 | 1 | 17 |
| | X | — | 73 | — | 1 | 0 | 0 | 27 |

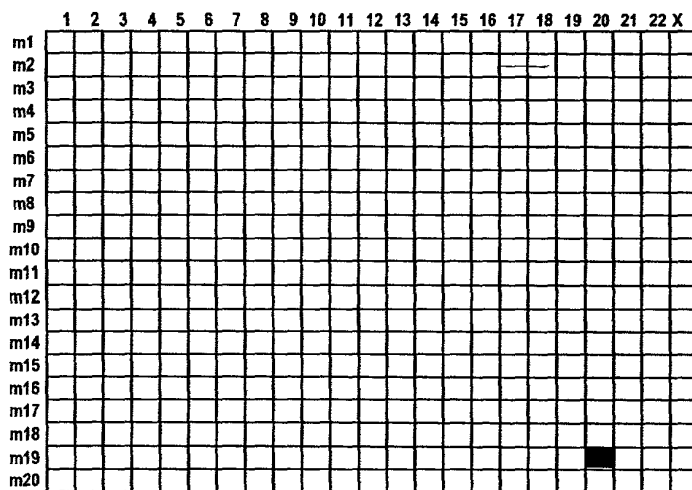


A

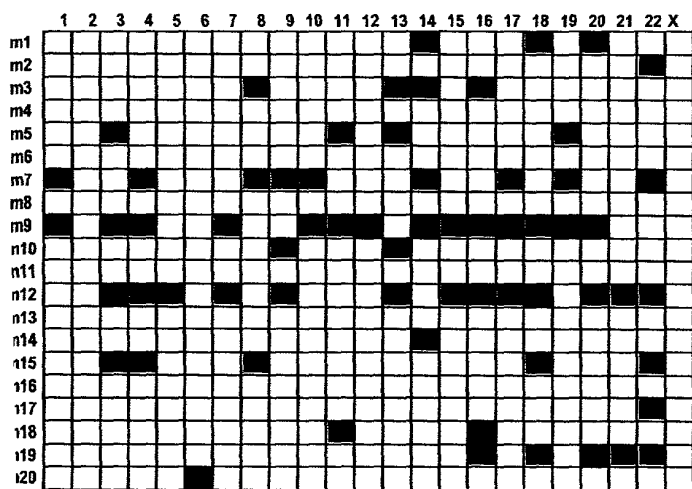


B

hSecurin^{+/+} (parental)



hSecurin^{-/-} (KO1)



D

hSecurin^{-/-} (KO2)

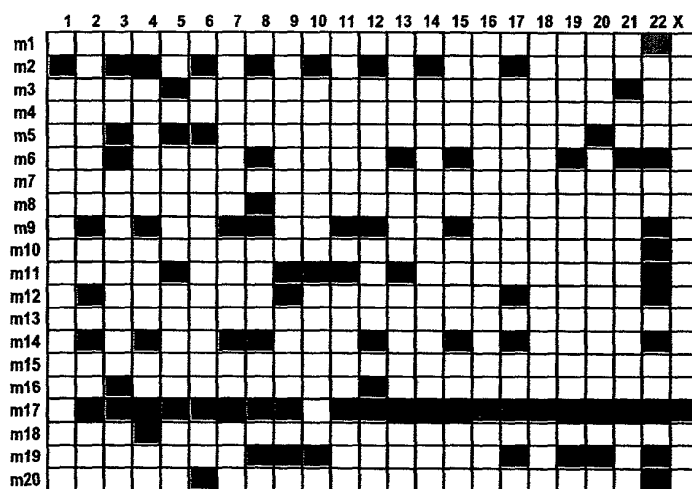
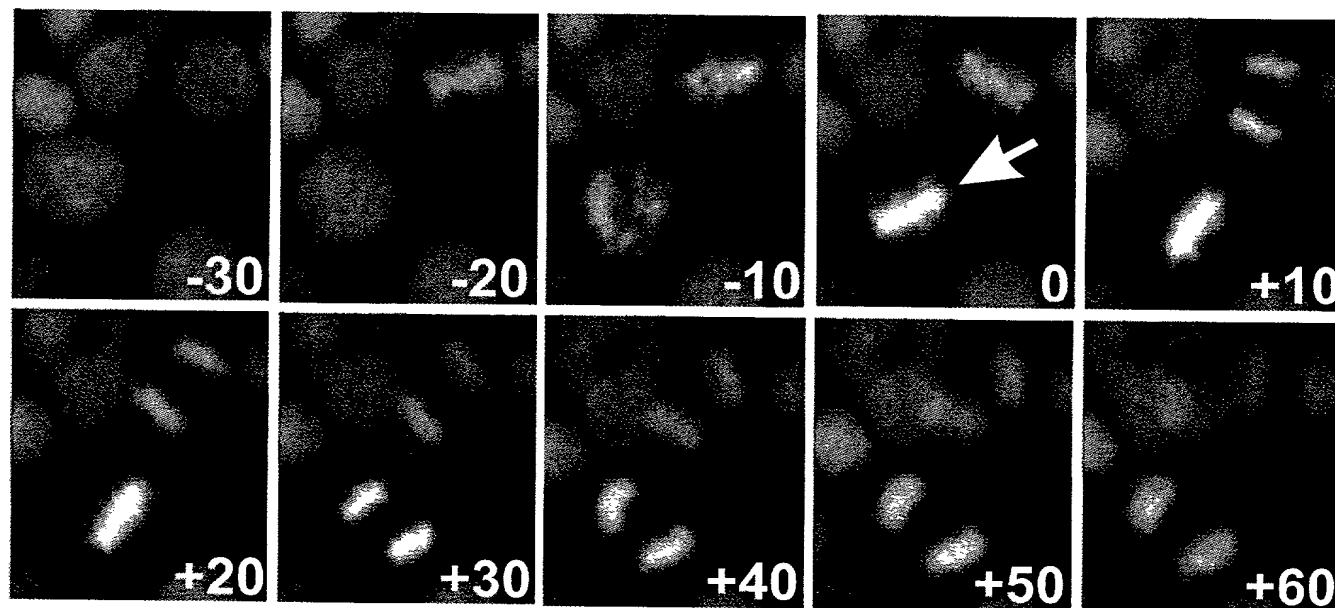


FIG. 3

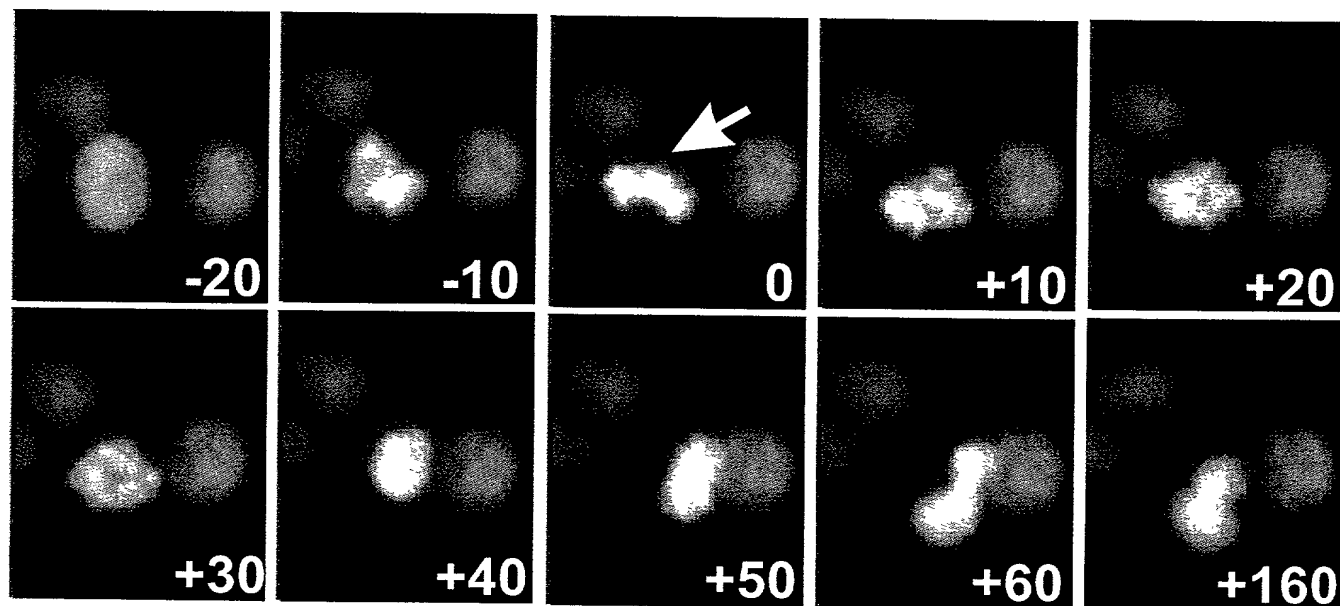
A

hSecurin^{+/+}



B

hSecurin^{-/-}

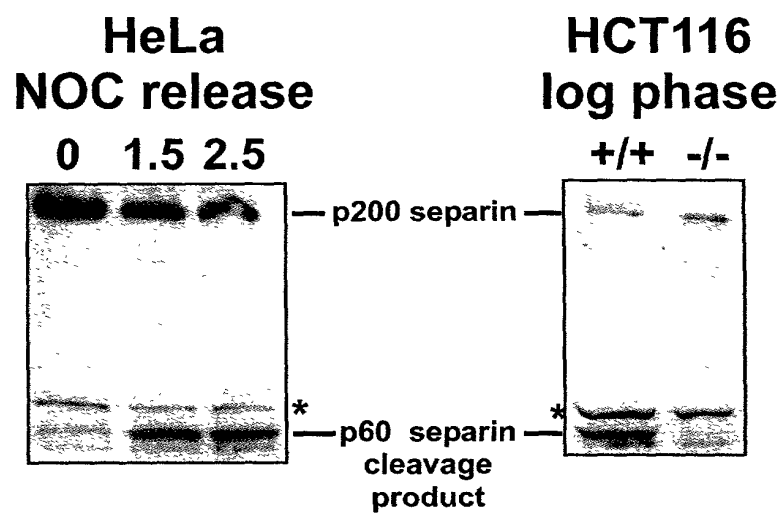


C

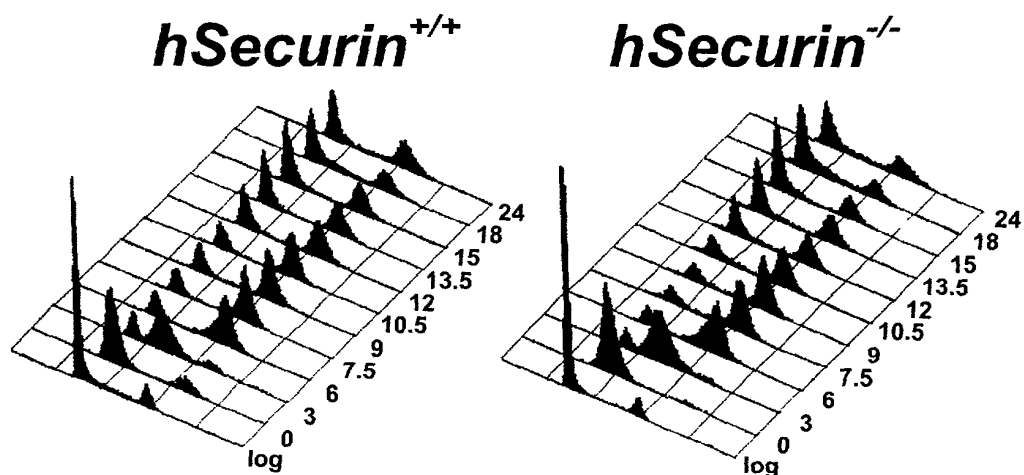
| mitotic interval (minutes) | <i>hSecurin</i> | |
|-------------------------------|-----------------|------------|
| | <i>+/+</i> | <i>-/-</i> |
| prophase to metaphase | 15 | 19 |
| metaphase to anaphase | 21 | 57 |
| anaphase to telophase | 17 | 16 |

FIG. 4

A



B



C

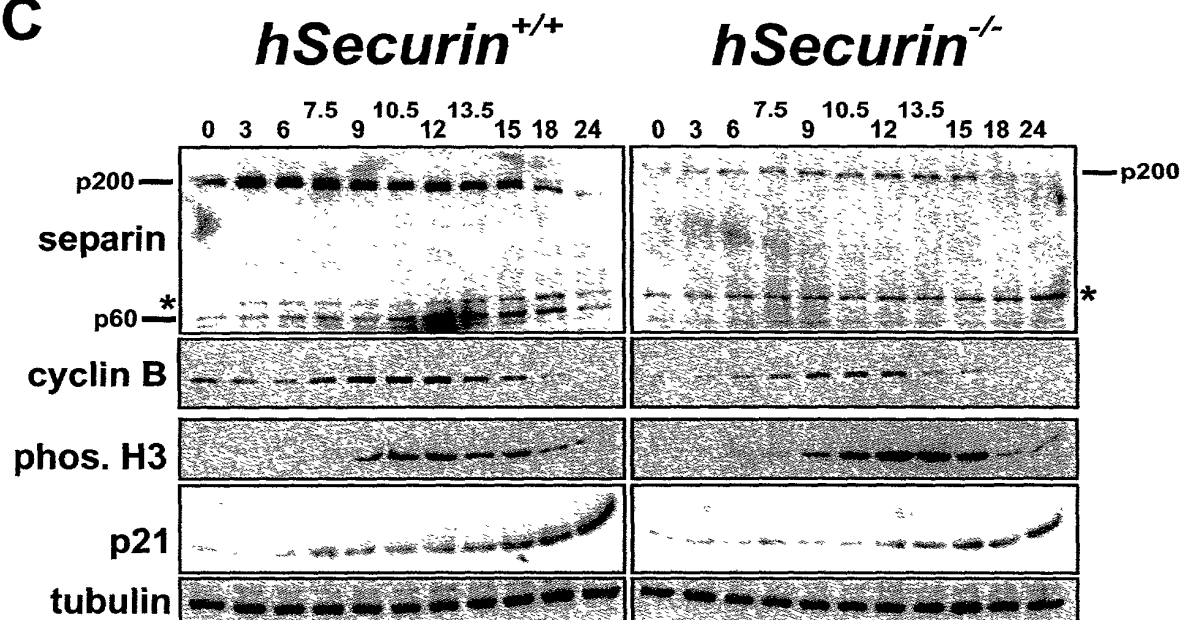


FIG. 5

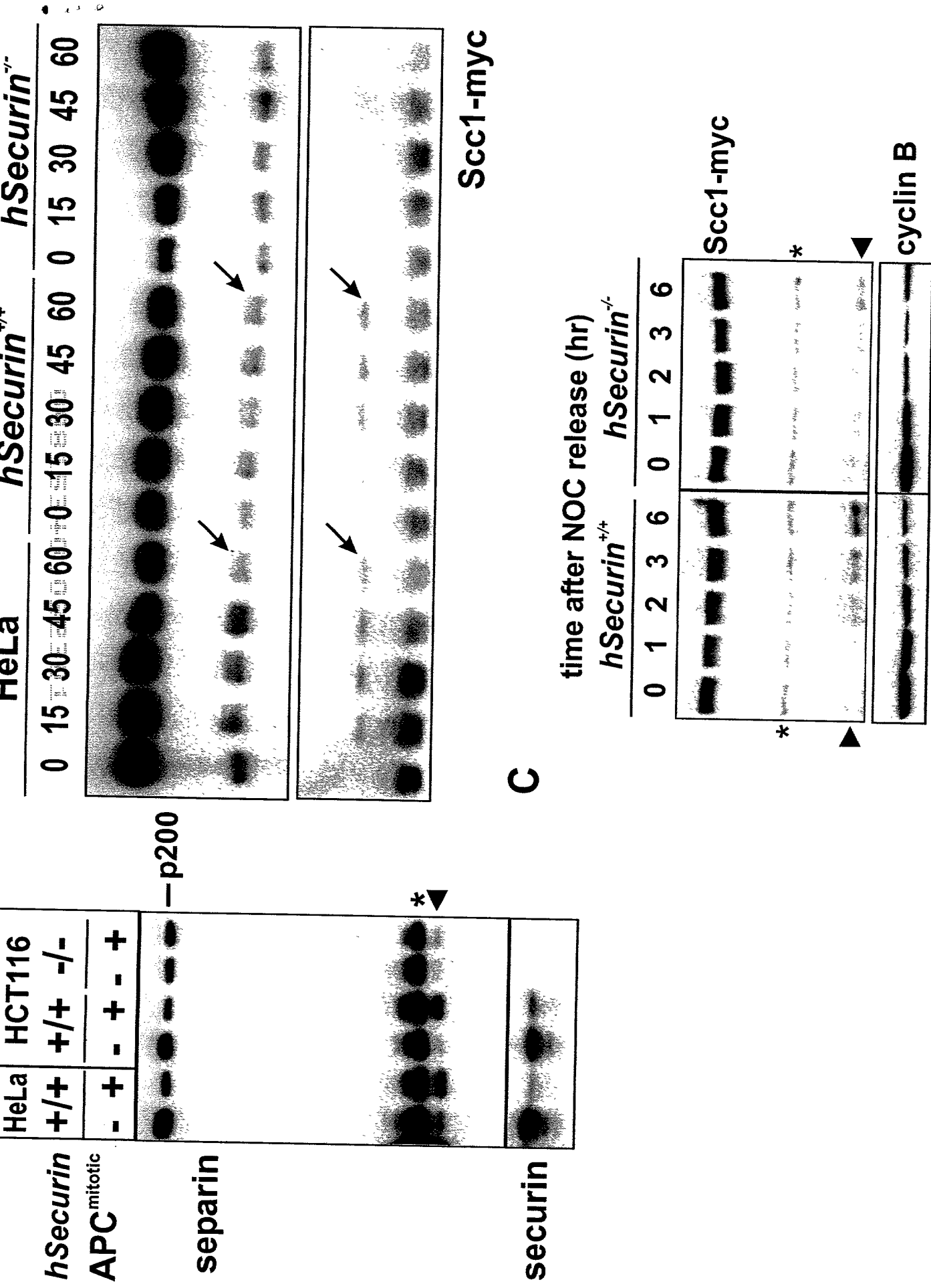


FIG. 6

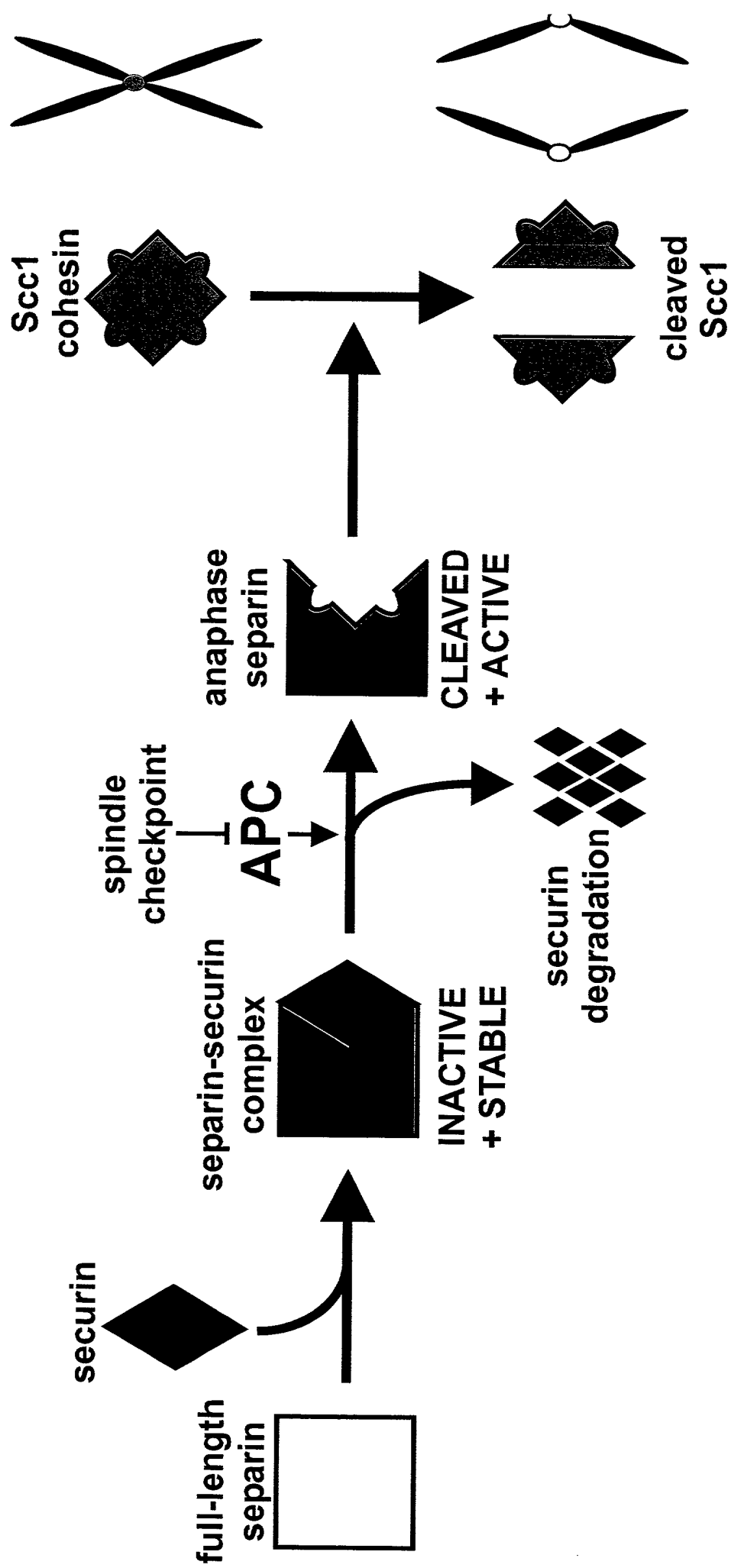


FIG. 7